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**Abstract** A device and method for distributing time available on a processor among two or more alternative tasks or threads and scheduling their execution. Each of the tasks specifies multiple levels of time usage on the process under which it can operate, including a best quality of service which uses the most time and a minimal quality of service which uses the least time. The invented system and method guarantees that each task will always be able to run at least its minimal quality of service and includes methods for obtaining optimal quality of service from all of the tasks.